SIEMENS

Product data sheet 3RF3405-1BB06



SOLID-STATE CONTACTOR 3-PH 3RF3 AC53 5.2A 40 DEGREES C 48-600V / 24V DC 2-PH. CONTROLLED INSTANTANEOUS SCREW TERMINALS

General technical data:		
product brand name		SIRIUS
product designation		solid-state motor contactor
_1 / of the accessories that can be ordered		Link module
• _2 / of the accessories that can be ordered		Connection adapter
Manufacturer article number		
_1 / of the accessories that can be ordered		3RA2921-1BA00
• _2 / of the accessories that can be ordered		3RF3900-0QA88
Protection class IP		IP20
Insulation voltage / rated value	V	600
Installation altitude / at a height over sea level / maximum	m	1,000
Ambient temperature		
during storage	°C	-55 +80
during operating	°C	-25 +60
Resistance against shock		
• according to IEC 60068-2-27		15g / 11 ms
Resistance against vibration		
according to IEC 60068-2-6		2g
Resistance against the impulse current / rated value	А	600
Active power loss / total / typical	W	10

Item designation	
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 	К
• according to DIN EN 61346-2	Q
Product function	instantaneous switching

Main circuit:		
Number of poles / for main current circuit		3
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		2
Operating frequency		
rated value	Hz	60 50
Operating voltage		
• at 60 Hz / at AC / rated value	V	48 600
at 50 Hz / at AC / rated value	V	48 600
Operating current		
• minimum	mA	500
at AC-3 / at 400 V / rated value	Α	5.2
Working area related to the operating voltage		
• at 50 Hz / for AC	V	40 660
• at 60 Hz / for AC	V	40 660
Service power / at AC-3 / at 400 V		
rated value	kW	2.2
Derating temperature	°C	40
Tolerance of the line frequency	Hz	5
Relative symmetrical tolerance / of the operation frequency	%	10
I2t-level / maximum	A²-s	1,800
Voltage slew rate / at the thyristor / for main contacts		
maximum permissible	V/µs	1,000
Block voltage / at the thyristor / for main contacts		
maximum permissible	V	1,600
Reverse current / of the thyristor	mA	10

Control circuit:		
Type of voltage / of the controlled supply voltage		DC
Control supply voltage		
•1		
• for DC		
• initial rated value	V	15
• final rated value	V	30
• for DC / final value for signal<0>-recognition	V	5

Control current		
• for DC / rated value	mA	15
at minimum control supply voltage / for DC	mA	2
Auxiliary circuit:		
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Number of change-over switches / for auxiliary contacts		0
Installation/mounting/dimensions:		
mounting position		vertical
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail
Type of fixing/fixation / series installation		Yes
Tightening torque / of the screw for fastening of the operating resource	N∙m	1.5
Design of the thread / of the screw for fastening of the operating resource		M4
Width	mm	45
Height	mm	95
Depth	mm	100.8
Distance, to be maintained, to the ranks assembly		
• upwards	mm	70
• downwards	mm	50
Connections:		
Connections: Design of the electrical connection		
		screw-type terminals
Design of the electrical connection		
Design of the electrical connection • for main current circuit		screw-type terminals
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit		screw-type terminals
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit Design of the thread / of the connection screw		screw-type terminals screw-type terminals
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit Design of the thread / of the connection screw • for main contacts		screw-type terminals screw-type terminals M4
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit Design of the thread / of the connection screw • for main contacts • of the auxiliary and control pins Product function / removable terminal for auxiliary and control		screw-type terminals screw-type terminals M4 M3
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit Design of the thread / of the connection screw • for main contacts • of the auxiliary and control pins Product function / removable terminal for auxiliary and control circuit		screw-type terminals screw-type terminals M4 M3
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit Design of the thread / of the connection screw • for main contacts • of the auxiliary and control pins Product function / removable terminal for auxiliary and control circuit Type of the connectable conductor cross-section		screw-type terminals screw-type terminals M4 M3
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit Design of the thread / of the connection screw • for main contacts • of the auxiliary and control pins Product function / removable terminal for auxiliary and control circuit Type of the connectable conductor cross-section • for main contacts		screw-type terminals screw-type terminals M4 M3 Yes
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit Design of the thread / of the connection screw • for main contacts • of the auxiliary and control pins Product function / removable terminal for auxiliary and control circuit Type of the connectable conductor cross-section • for main contacts • solid		screw-type terminals screw-type terminals M4 M3 Yes
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit Design of the thread / of the connection screw • for main contacts • of the auxiliary and control pins Product function / removable terminal for auxiliary and control circuit Type of the connectable conductor cross-section • for main contacts • solid • finely stranded		screw-type terminals screw-type terminals M4 M3 Yes 2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit Design of the thread / of the connection screw • for main contacts • of the auxiliary and control pins Product function / removable terminal for auxiliary and control circuit Type of the connectable conductor cross-section • for main contacts • solid • finely stranded • with conductor end processing		screw-type terminals M4 M3 Yes 2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²

• finely stranded		
 with conductor end processing 		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
 without conductor final cutting 		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
• for AWG conductors / for auxiliary and control contacts		1x (AWG 20 12)
Tightening torque		
• for main contacts / with screw-type terminals	N⋅m	2 2.5
• for auxiliary and control contacts / with screw-type terminals	N⋅m	0.5 0.6
Tightening torque (lbf-in)		
• for main contacts / with screw-type terminals	lbf∙in	18 22
• for auxiliary and control contacts / with screw-type terminals	lbf∙in	7.5 5.3
Skinning length / of the cable		
• for main contacts	mm	7
for auxiliary and control contacts	mm	7

Certificates/approvals:

Verification of suitability CE / UL / CSA / CCC / C-TICK

General Product Approval EMC Declaration of Conformity Test Certificates











Type Test
Certificates/Test
Report

UL/CSA ratings

yielded mechanical performance (hp) / for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	0.5
• at 220/230 V / rated value	hp	0.75
• at 460/480 V / rated value	hp	2
• at 575/600 V / rated value	hp	2
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	Α	3.4
• at 600 V / rated value	Α	2.7

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

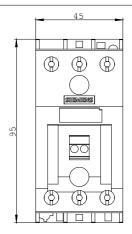
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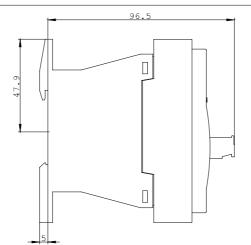
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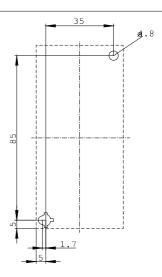
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

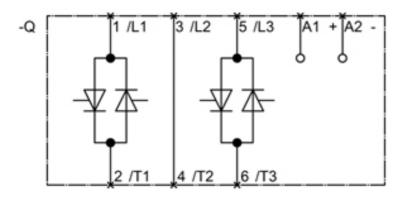
http://support.automation.siemens.com/WW/view/en/3RF3405-1BB06/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RF3405-1BB06









last change:

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